

# **AMENDED CONSENT DECREE SEMI-ANNUAL REPORT #7**

**JULY 1, 2022 – DECEMBER 31, 2022**

February 28, 2023



**Sanitation District No. 1**

1045 Eaton Drive  
Ft. Wright, KY 41017

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## LIST OF ACRONYMS AND ABBREVIATIONS

ACD	Amended Consent Decree
Cabinet	Kentucky Energy and Environment Cabinet
CSAP	Continuous Sewer Assessment Program
CSO	Combined Sewer Overflow
CSS	Combined Sewer System
District	Sanitation District No. 1
EPA	U.S. Environmental Protection Agency
hr	Hours
MG	Million Gallons
MH	Manhole
min	Minutes
PS	Pump Station
SD1	Sanitation District No. 1
SSO	Sanitary Sewer Overflow
UT	Unnamed Tributary

## SECTION 1. INTRODUCTION

The Semi-Annual Report is submitted to fulfill the reporting requirements of Sanitation District No. 1's (SD1) Amended Consent Decree, as entered on May 22, 2019. The Amended Consent Decree is a legal agreement with the U.S. Environmental Protection Agency (EPA) and the Kentucky Energy and Environment Cabinet (Cabinet). The purpose of the Amended Consent Decree is to address sanitary sewer overflows (SSOs) in SD1's sanitary sewer system and combined sewer overflows (CSOs) in the combined sewer system, in order to improve water quality throughout SD1's service area. Specifically, Section V Reporting Requirements, states that:

**47. Semi-Annual Reports.** The District shall submit to the Cabinet/EPA a Semi-Annual Report no later than sixty days after the end of each six-month calendar period ending June 30 and December 31.

Information contained within this report describes SD1's compliance with Amended Consent Decree Case No. 2:05-CV-199 (WOB) for the last six months of calendar year 2022.

## SECTION 2. OVERFLOW DETAILS

Paragraph 47 of the Amended Consent Decree provides the details to be included in the report:

**47.** The Semi-Annual Report shall include the date, time, location, estimated volume, estimated duration, receiving water (if any), cause and actions taken to respond to and repair or otherwise resolve the cause of all SSOs and dry weather CSOs occurring in the most recently completed six-month calendar period. For reported SSOs, the Semi-Annual Report shall also identify any project that may be included in Appendix C of the Amended Consent Decree or in an Updated Watershed Plan that is designed to eliminate that SSO. The Semi-Annual Report shall also include such information in a tabulated electronic format.

The Semi-Annual Report provides overflow details from multiple sources. The two categories of Dry Weather CSOs and SSOs Caused by Operational Failures are derived from records that were a result of visual confirmations of the overflows. The two categories of SSOs at Pumps Stations Caused by Typical and Non-Typical Year Wet Weather are derived from records that were a result of telemetry-based alarms of remotely sensed overflows. The two categories of Typical and Non-Typical Year Model-Predicted Wet Weather SSOs are derived from hydraulic models that are continuously updated and calibrated with a robust flow monitoring program, and simulations of wet weather events that are recorded by SD1's network of 23 rain gauges.

## 2.1 Dry Weather CSOs

CSO	KPDES Outfall #	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
1730259	75	11/22/2022 1105	39.085, -84.559	2,318	01:01	Pleasant Run Creek / Ohio River	Blockage: Debris	Creek flow too heavy to recover any overflow. Minimal impact. Manhole was vactored and line jetted.
1730259	75	11/23/2022 0740	39.085, -84.559	11,590	05:05	Pleasant Run Creek / Ohio River	Pipe Condition - Partial Pipe Collapse	Line jetted to break through collapsed location to clear blockage. Creek flow too heavy to recover any overflow. Work order created to repair line. Line repair completed 11/28/2022.

## 2.2 SSOs Caused by Operational Failures

SSO	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
1770159	7/13/2022 1530	39.041, -84.579	2,014	0:53	Dry Creek	Equipment Malfunction – Mechanical Failure	Overflow was caused by defective tideflex valve. Valve removed and line cctd. Line is now operational. Minimal cleanup needed due to rain events immediately after discovery. No visible solids due to bolted down lid and sewage release occurred between frame and cone section.
2020PS4	7/20/2022 1358	38.972, -84.500	100	0:06	DeCoursey Creek	Equipment Malfunction – Mechanical Failure	A 45-degree joint in the valve vault for the pump station failed. The pump station was shut down immediately upon detection and repair completed. Pump station was hauled with a tanker truck. Vector truck was used to hose down and clean the affected area.
2030034	7/26/2022 1608	38.997, -84.547	1,000	42:00	UT Bullock Pen Creek	Condition of Pipe – Line Break	Release was caused by hillside movement resulting in line separation. Line was excavated and repaired. Cleanup was not needed due to multiple rain events between initial discovery and final repair. No visible signs of release.
1700019	8/22/2022 1000	39.074, -84.541	61,560	27:00	UT Pleasant Run Creek	Blockage - Debris	Release occurred due to missing manhole lid and large rock creating blockage in sewer. Vandalism not suspected as manhole is located in heavily flowing creek. Release occurred withing the creek. No solids in the creek once flow returned to the pipe. Creek was flushed for approximately 6 hours.

SSO	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
1220054	10/05/2022 1230	39.027, -84.601	18,300	01:40	UT Dry Creek	Blockage – Grease	Release caused by grease blockage. The overflow line was jetted and in good condition. Cleanup performed by pumping sewage from 2 pooling areas back into the system. Affected area was flushed for approximately 6 hours. Two pumps were used to pump the flushed area into the system.
1030PS7	10/18/2022 0650	38.979, -84.633	383	0:10	UT South Fork Gunpowder Creek	Power / Electrical Failure	Release was caused by a breaker trip which resulted in loss of power to the pump level control. Without power to the level control the pumps were unable to run. A responder was able to reset the breaker and return functionality to the pumps. Vector truck was used to hose down and clean the affected area.
2300335	11/03/2022 1815	38.964, -84.584	2,280	1:00	UT Banklick Creek	Blockage – Grease	Release caused by grease blockage. Upon arrival sewage was seeping from manhole cover. Manhole was probed and sewage returned to the pipe. Line was jetted and returned to good condition. Three lines upstream and two lines downstream were cctd with no remaining blockages found. No odor remained after cleaning was completed.
1280002	11/20/2022 1530	39.032, -84.597	27, 060	1:06	UT Dry Creek	Blockage – Debris	Release was due to debris in line. Line was jetted and flow returned to pipe. Two lines upstream and one line downstream were cctd with no remaining blockages found. Ground was raked and all debris bagged. Prior to seed and straw, a moderate rain event occurred that eliminated any remaining signs of overflow.

SSO	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Cause	Actions
2390209	12/12/2022 1850	39.019, -84.726	4,066	1:47	UT Allen Fork	Blockage – Debris	Release was seeping out of manhole cover. Line was jetted and flow returned to pipe. One line upstream and two lines downstream were cctd with no remaining blockages found. Impact was minimal. Area around the manhole and creek was raked and hosed down. Cleanup area was then pumped back into the system.
2110075	12/27/2022 1700	39.008, -84.608	8,100	1:30	UT Bullock Pen Creek	Blockage – Roots	Mainline had a root blockage that caused the sewage to backup a 4 inch lateral and daylight via a backyard cleanout located at 305 Lytle Ave. Debris from the area was raked and bagged. Entire area was flushed to the storm sewer and then vactored at the street. Storm sewer was also flushed with the vactor truck. Vactor was then discharged back into the sanitary system. Area was stabilized with seed and straw.

### 2.3 SSOs at Pump Stations Caused by Typical Year Wet Weather

SSO	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Related Project
NA	NA	NA	NA	NA	NA	NA

### 2.4 SSOs at Pump Stations Caused by Non-Typical Year Wet Weather

SSO	Date & Time	Location (x, y)	Estimated Volume (gallons)	Duration (hrs:min)	Receiving Water	Related Project
NA	NA	NA	NA	NA	NA	NA

## 2.5 Model Predicted SSOs Caused by Typical Year Wet Weather

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0060001	39.054000, -84.435000	9/6/2022 12:10	0.020	2:28	Threemile Creek	HH/SG Improvements (2040)
		12/7/2022 0:20	0.002	0:26		
0060002	39.053526, -84.435877	9/6/2022 12:05	0.030	2:02	Threemile Creek	HH/SG Improvements (2040)
0060004	39.053000, -84.436000	9/6/2022 12:05	0.047	1:23	Threemile Creek	HH/SG Improvements (2040)
0110010	39.048830, -84.455989	9/6/2022 12:00	0.175	3:33	Threemile Creek	Licking River Siphon Conveyance Extension
		11/27/2022 4:53	0.002	0:21		
0110010	39.048830, -84.455989	11/29/2022 23:50	0.012	0:58	Threemile Creek	Licking River Siphon Conveyance Extension
		12/6/2022 22:35	0.014	2:23		
0150009	39.053425, -84.481907	9/5/2022 5:40	0.026	2:09	UT to Threemile Creek	Licking River Siphon Conveyance
		9/6/2022 12:55	0.005	0:29		
		11/11/2022 8:25	0.008	0:56		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		12/6/2022 22:05	0.006	0:26		
0150061	39.048237, -84.481442	9/6/2022 12:50	0.008	1:42	Threemile Creek	Licking River Siphon Conveyance
0150064	39.048569, -84.479495	9/6/2022 12:35	0.018	1:33	Threemile Creek	Licking River Siphon Conveyance
0150065	39.049000, -84.478000	9/6/2022 12:35	0.004	0:34	Threemile Creek	Licking River Siphon Conveyance (2029)
0150399	39.049304, -84.483918	9/6/2022 12:50	0.012	1:18	Threemile Creek	Licking River Siphon Conveyance
0230016	39.071407, -84.460345	7/6/2022 15:00	0.001	0:10	UT to Threemile Creek	Licking River Siphon Conveyance (2040)
0300035	39.084106, -84.446180	7/6/2022 14:55	0.012	0:25	UT to Ohio River	HH/SG Improvements (2040)
		8/30/2022 3:45	0.012	0:20		
		9/5/2022 4:50	0.008	0:19		
0340003	39.098779, -84.439774	9/5/2022 5:05	0.006	0:37	UT to Ohio River	HH/SG Improvements (2040)
0410019	39.102662, -84.459591	8/30/2022 3:55	0.002	0:24	UT to Woodlawn Creek	Taylor Creek (2040)
		9/5/2022 5:00	0.009	2:25		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0430107	39.102662, -84.459594	8/30/2022 4:15	0.003	0:10	UT to Woodlawn Creek	Taylor Creek (2040)
		9/5/2022 5:15	0.017	2:05		
0860001	39.052515, -84.494621	9/5/2022 5:40	0.088	2:53	Licking River	Licking River Siphon EQ
		9/6/2022 12:50	0.074	2:28		
		11/11/2022 8:15	0.134	4:58		
		12/6/2022 22:00	0.109	4:23		
0870037	39.102662, -84.459597	9/5/2022 4:30	0.012	0:15	None: Returned to CSS	James Ave Consolidation Sewer
		9/6/2022 11:40	0.068	0:29		
1010002	39.102662, -84.459592	8/30/2022 4:00	0.001	0:14	UT to Woodlawn Creek	Taylor Creek (2040)
		9/5/2022 5:05	0.006	2:09		
1190012	39.015680, -84.608249	7/6/2022 15:00	0.001	0:15	UT to Dry Creek	Dry Creek (2040)
		8/9/2022 21:50	0.003	0:19		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		9/5/2022 4:35	0.004	0:20		
1200022	39.022725, -84.603567	9/5/2022 4:30	0.003	0:15	UT to Dry Creek	Dry Creek (2040)
1220016	39.028552, -84.599485	7/6/2022 15:00	0.001	0:18	UT to Dry Creek	Dry Creek (2040)
		8/9/2022 21:45	0.002	0:23		
		9/5/2022 4:30	0.003	0:23		
1220054	39.026306, -84.601512	8/9/2022 21:50	0.002	0:14	UT to Dry Creek	Dry Creek (2040)
		9/5/2022 4:30	0.005	0:24		
1550053	39.047894, -84.558901	7/6/2022 13:55	0.005	0:19	UT to to Pleasant Run Creek	Bromley Crescent Springs Improvements (2040)
1560092	39.046501, -84.559279	7/6/2022 13:55	0.019	0:30	UT to Pleasant Run Creek	Bromley Crescent Springs Conveyance
		9/5/2022 4:45	0.007	0:20		
		9/6/2022 11:55	0.004	0:19		
1570100	39.040149, -84.549623	7/6/2022 14:10	0.002	0:23	UT to Moser's Branch	Lakeview (2040)
1850140	39.035532, -84.501651	9/6/2022 11:45	0.008	0:23	Banklick Creek	Banklick EQ/Conveyance
1850141	39.034191, -84.501171	7/6/2022 15:50	0.029	2:34	Banklick Creek	Banklick EQ/Conveyance

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		7/18/2022 1:40	0.006	0:35		
		7/27/2022 10:25	0.005	0:54		
		8/30/2022 3:50	0.018	1:29		
		9/3/2022 19:30	0.006	1:03		
		9/5/2022 4:40	0.020	0:50		
		9/6/2022 11:35	0.043	1:14		
		11/11/2022 6:55	0.051	5:19		
		11/27/2022 5:30	0.002	0:15		
		11/30/2022 0:25	0.005	0:43		
		12/7/2022 0:55	0.003	0:24		
1860108	39.036049, -84.508653	9/5/2022 4:55	0.003	0:24	Banklick Creek	Banklick EQ/Conveyance
		9/6/2022 11:45	0.013	0:39		
		11/11/2022 8:01	0.004	1:00		
1920097	39.028000, -84.433000	9/6/2022 12:25	0.012	1:58	Duck Creek	Wolpert PS
2020035	38.992666, -84.519138	12/7/2022 0:21	0.007	0:58	Wayman or Hands Branch	Lakeview (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
2100126	39.001555, -84.612300	9/5/2022 4:35	0.002	0:19	UT to Bullock Pen Creek	Lakeview (2040)
2110006	39.004057, -84.606363	8/9/2022 22:01	0.004	0:28	UT to Bullock Pen Creek	Lakeview (2040)
		9/5/2022 4:45	0.007	0:34		
2120023	39.005642, -84.603616	9/5/2022 4:30	0.002	0:14	UT to Bullock Pen Creek	Lakeview (2040)
2120041	39.007017, -84.603772	7/6/2022 14:55	0.003	0:20	UT to Bullock Pen Creek	Lakeview (2040)
		8/9/2022 21:50	0.003	0:15		
		9/5/2022 4:30	0.007	0:24		
2210009	38.977331, -84.387178	12/7/2022 1:20	0.007	2:30	UT to Tug Creek	Eastern Regional (2040)
2210050	38.980709, -84.390543	12/7/2022 0:00	0.022	4:36	UT to Tug Creek	Eastern Regional (2040)
2330095	38.883408, -84.387022	7/18/2022 14:40	0.012	1:08	UT to Phillips Creek	Not Applicable

## 2.6 Model Predicted SSOs Caused by Non-Typical Year Wet Weather

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0040003	39.058364, -84.443599	8/5/2022 9:45	0.008	0:24	UT to Threemile Creek	HH/SG Improvements (2040)
		8/6/2022 9:16	0.007	0:33		
0050011	39.056734, -84.434115,	8/5/2022 9:55	0.001	0:14	Three Mile Creek	HH/SG Improvements (2040)
		8/6/2022 9:30	0.004	0:27		
0050022	39.057312, -84.443133	8/5/2022 9:45	0.004	0:19	UT to Threemile Creek	HH/SG Improvements (2040)
		8/6/2022 9:15	0.018	0:57		
0050131	39.054857, -84.433274	8/5/2022 9:55	0.010	0:37	Threemile Creek	HH/SG Improvements (2040)
		8/6/2022 9:25	0.034	2:03		
0060001	39.054000, -84.435000	8/6/2022 9:25	0.036	3:52	Threemile Creek	HH/SG Improvements (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0060002	39.053526, -84.435877	8/6/2022 9:25	0.052	3:14	Threemile Creek	HH/SG Improvements (2040)
0060004	39.053000, -84.436000	8/6/2022 9:25	0.093	2:13	Threemile Creek	HH/SG Improvements (2040)
0070030	39.041693, -84.440407	8/6/2022 9:30	0.002	0:18	Three Mile Creek	HH/SG Improvements (2040)
0070044	39.037000, -84.444000	8/6/2022 9:25	0.027	0:40	UT to Threemile Creek	HH/SG Improvements (2040)
		9/6/2022 12:00	0.009	0:30		
0100001	39.044000, -84.459000	8/6/2022 9:30	0.017	2:04	Threemile Creek	Licking River Siphon Conveyance (2034)
		9/6/2022 12:10	0.006	0:57		
0100004	39.042000, -84.461000	8/6/2022 9:25	0.097	2:10	Threemile Creek	Licking River Siphon Conveyance (2034)
		9/6/2022 12:05	0.036	1:14		
0100034	39.041619, -84.462899	8/6/2022 9:40	0.007	0:34	Three Mile Creek	Licking River Siphon Conveyance

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0110002	39.053000, -84.458000	8/6/2022 9:35	0.002	0:19	Threemile Creek	Licking River Siphon Conveyance (2034)
0110010	39.048830, -84.455989	8/5/2022 10:00	0.011	0:44	Threemile Creek	Licking River Siphon Conveyance Extension
		8/6/2022 9:15	0.327	4:57		
0120018	39.037000, -84.447000	8/6/2022 9:25	0.003	0:20	UT to Threemile Creek	HH/SG Improvements (2040)
0130054	39.031342, -84.445268	8/6/2022 9:25	0.002	0:19	UT Three Mile Creek	HH/SG Improvements (2040)
0150009	39.053425, -84.481907	8/5/2022 10:15	0.319	3:55	UT to Threemile Creek	Licking River Siphon Conveyance
		8/6/2022 9:45	0.208	3:33		
0150024	39.060000, -84.478000	8/5/2022 10:15	0.026	0:40	North Branch Threemile Creek	Licking River Siphon Conveyance (2040)
		8/6/2022 9:45	0.005	0:25		
0150061	39.048237, -84.481442	8/5/2022 10:25	0.007	1:09	Threemile Creek	Licking River Siphon Conveyance

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		8/6/2022 9:45	0.032	5:14		
0150064	39.048569, -84.479495	8/5/2022 10:25	0.007	0:54	Threemile Creek	Licking River Siphon Conveyance
		8/6/2022 9:40	0.094	4:59		
0150065	39.049000, -84.478000	8/6/2022 9:40	0.037	3:39	Threemile Creek	Licking River Siphon Conveyance (2029)
0150083	39.051555, -84.463159	8/6/2022 9:25	0.004	0:24	Threemile Creek	Licking River Siphon Conveyance Extension
0150086	39.053303, -84.460735	8/5/2022 9:55	0.022	0:49	Threemile Creek	Licking River Siphon Conveyance Extension
		8/6/2022 9:25	0.097	2:60		
0150399	39.049304, -84.483918	8/5/2022 10:20	0.039	2:38	Threemile Creek	Licking River Siphon Conveyance
		8/6/2022 9:45	0.080	5:20		
0180001	39.063467, -84.454005	8/5/2022 9:50	0.002	0:15	UT Three Mile Creek	Licking River Siphon Conveyance (2040)
0200024	39.069092, -84.442783	8/5/2022 9:55	0.004	0:24	UT Ohio River	Not Applicable
0220056	39.066994, -84.454804	8/5/2022 9:55	0.013	1:23	UT to Threemile Creek	Licking River Siphon Conveyance (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		8/6/2022 9:30	0.008	0:55		
0220058	39.067635, -84.454360	8/5/2022 9:55	0.007	0:53	UT to Threemile Creek	Licking River Siphon Conveyance (2040)
		8/6/2022 9:35	0.001	0:27		
0220086	39.064285, -84.456303	8/5/2022 9:50	0.023	0:51	UT to Threemile Creek	Licking River Siphon Conveyance (2040)
		8/6/2022 9:25	0.009	0:34		
0230008	39.070000, -84.462000	8/5/2022 9:55	0.002	0:29	North Branch Threemile Creek	Licking River Siphon Conveyance (2040)
0230016	39.071407, -84.460345	8/5/2022 9:35	0.017	0:45	UT to Threemile Creek	Licking River Siphon Conveyance (2040)
		8/6/2022 9:15	0.006	0:20		
		8/21/2022 19:45	0.007	0:15		
0270026	39.074989, -84.451222	8/5/2022 9:40	0.047	0:60	UT to Threemile Creek	Licking River Siphon Conveyance (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		8/6/2022 9:13	0.024	0:46		
		8/21/2022 19:50	0.003	0:15		
0270062	39.075980, -84.449930	8/5/2022 9:40	0.002	0:15	UT Three Mile Creek	Licking River Siphon Conveyance (2040)
		8/5/2022 9:40	0.020	0:39		
0280001	39.075061, -84.440902	8/6/2022 9:20	0.012	0:30	UT to Ohio River	HH/SG Improvements (2040)
		8/21/2022 19:55	0.003	0:15		
0280073	39.074935, -84.441061	8/5/2022 9:45	0.006	0:20	UT to Ohio River	HH/SG Improvements (2040)
0290005	39.078097, -84.444416	8/5/2022 9:45	0.001	0:15	UT Ohio River	HH/SG Improvements (2040)
0300002	39.084349, -84.446192	8/21/2022 19:45	0.001	0:10	UT to to Ohio River	HH/SG Improvements (2040)
0300004	39.084161, -84.447518	8/21/2022 19:45	0.002	0:10	UT to to Ohio River	HH/SG Improvements (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0300035	39.084106, -84.446180	8/5/2022 9:40	0.040	0:45	UT to Ohio River	HH/SG Improvements (2040)
		8/6/2022 9:10	0.025	0:39		
		8/20/2022 15:45	0.002	0:15		
		8/21/2022 19:45	0.013	0:20		
0300049	39.083541, -84.446231	8/5/2022 9:45	0.005	0:29	UT to to Ohio River	HH/SG Improvements (2040)
		8/6/2022 9:15	0.003	0:23		
		8/21/2022 19:45	0.002	0:14		
0300058	39.081674, -84.446103	8/5/2022 9:40	0.008	0:25	UT to Ohio River	HH/SG Improvements (2040)
		8/6/2022 9:15	0.002	0:15		
		8/21/2022 19:50	0.001	0:10		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0310059	39.084984, -84.445088	8/5/2022 9:50	0.002	0:29	UT to Ohio River	HH/SG Improvements (2040)
0340003	39.098779, -84.439774	8/5/2022 10:15	0.001	0:23	UT to Ohio River	HH/SG Improvements (2040)
		8/6/2022 9:35	0.005	0:34		
0390006	39.101429, -84.456785	8/5/2022 8:40	0.003	0:20	UT to Taylor Creek	Taylor Creek (2040)
		9/5/2022 4:50	0.002	0:20		
0390007	39.101019, -84.456644	8/5/2022 8:40	0.004	0:20	UT to Taylor Creek	Taylor Creek (2040)
		9/5/2022 4:50	0.005	0:15		
0410001	39.093032, -84.464007	8/5/2022 10:10	0.020	0:35	UT to Woodlawn Creek	Taylor Creek (2040)
		8/6/2022 9:40	0.008	0:20		
0410010	39.088912, -84.461262	8/5/2022 10:05	0.006	0:30	UT to to Woodlawn Creek	Taylor Creek (2040)
0410019	39.086080, -84.459029	8/5/2022 9:55	0.006	0:58	UT to Woodlawn Creek	Taylor Creek (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		8/6/2022 9:25	0.004	0:44		
		8/21/2022 19:55	0.002	0:19		
0410115	39.090654, -84.462333	8/5/2022 10:05	0.021	0:30	UT to Woodlawn Creek	Taylor Creek (2040)
		7/6/2022 15:30	0.003	0:19		
		8/5/2022 10:05	0.062	1:35		
		8/6/2022 9:35	0.050	1:15		
0430006	39.095033, -84.469461	8/21/2022 20:05	0.016	0:35	UT to Woodlawn Creek	Taylor Creek (2040)
		8/30/2022 4:05	0.022	0:40		
		9/5/2022 5:10	0.097	2:58		
		12/6/2022 21:45	0.014	0:40		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0430107	39.094213, -84.466250	8/5/2022 10:10	0.034	0:49	UT to Woodlawn Creek	Taylor Creek (2040)
		8/6/2022 9:40	0.023	0:35		
0460037	39.114090, -84.458827	8/5/2022 9:15	0.002	0:27	UT to to Ohio River	Not Applicable
0500047	39.079133, -84.480473	8/5/2022 10:05	0.027	0:30	UT to to Woodlawn Creek	Taylor Creek (2040)
0530083	39.093628, -84.473394	8/5/2022 10:10	0.036	2:09	UT to Woodlawn Creek	Taylor Creek (2040)
		8/6/2022 9:40	0.011	1:21		
		9/5/2022 5:15	0.039	3:20		
0570130	39.116305, -84.461098	8/5/2022 9:15	0.033	0:15	UT to to Ohio River	HH/SG Improvements (2040)
0600044	39.10976, -84.480813	8/5/2022 8:35	0.010	0:25	None: Returned to CSS	Not Applicable
		8/20/2022 14:35	0.003	0:10		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0610023	39.102693, -84.478409	8/5/2022 8:40	0.005	0:20	UT to Covert Run	Not Applicable
0610055	39.102749, -84.480753	8/5/2022 8:40	0.007	0:15	None: Returned to CSS	Not Applicable
0610067	39.101471, -84.47941	8/5/2022 8:40	0.004	0:15	None: Returned to CSS	Not Applicable
0620057	39.101530, -84.482660	7/6/2022 13:45	0.003	0:10	None: Returned to CSS	Not Applicable
		8/5/2022 8:30	0.086	0:50		
		8/20/2022 14:35	0.025	0:15		
		8/21/2022 18:25	0.001	0:10		
		8/30/2022 2:30	0.023	0:20		
		9/5/2022 4:50	0.007	0:15		
		12/7/2022 0:10	0.003	0:10		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0780084	39.090297, -84.495817	8/5/2022 9:20	0.002	0:10	None: Returned to CSS	Not Applicable
		8/30/2022 2:35	0.002	0:10		
0780091	39.090563, -84.495334	8/5/2022 9:15	0.017	0:15	None: Returned to CSS	Not Applicable
		8/30/2022 2:35	0.015	0:15		
0830058	39.085144, -84.499760	8/5/2022 9:20	0.002	0:10	None: Returned to CSS	Not Applicable
		8/30/2022 2:35	0.002	0:10		
0860001	39.052515, -84.494621	8/5/2022 10:20	0.266	4:54	Licking River	Licking River Siphon EQ
		8/6/2022 9:45	0.299	6:09		
0870019	39.046782, -84.493417	8/5/2022 9:40	0.003	0:15	UT to to Licking River	CSS Conveyance Improvements
		8/6/2022 8:55	0.019	0:29		
0870026	39.04494, -84.493737	8/6/2022 9:05	0.006	0:10	UT to Licking River	Not Applicable

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0870037	39.046409, -84.494850	8/5/2022 9:10	0.344	0:55	None: Returned to CSS	James Ave Consolidation Sewer
		8/6/2022 8:35	0.432	0:55		
0870043	39.047482, -84.497318	8/6/2022 9:00	0.013	0:15	UT to Licking River	Not Applicable
0870068	39.04469, -84.497628	8/5/2022 9:40	0.004	0:10	UT to Licking River	Not Applicable
		8/6/2022 8:55	0.077	0:24		
0870071	39.047956, -84.494183	8/6/2022 9:00	0.023	0:20	UT to Licking River	Not Applicable
0870087	39.044698, -84.497585	8/6/2022 9:00	0.015	0:15	UT to Licking River	Not Applicable
0870088	39.047141, -84.496754	8/6/2022 9:00	0.021	0:15	UT to Licking River	Not Applicable
0880007	39.052828, -84.499242	8/6/2022 9:00	0.003	0:19	Licking River	Not Applicable
0880032	39.048628, -84.499203	8/6/2022 9:05	0.003	0:10	Licking River	Not Applicable
0880038	39.046248, -84.499232	8/6/2022 9:05	0.009	0:15	UT to Licking River	Not Applicable
0890060	39.053971, -84.504121	8/6/2022 9:15	0.014	0:10	Licking River	Not Applicable
0890064	39.054849, -84.504816	8/6/2022 9:20	0.009	0:15	None: Returned to CSS	Not Applicable

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
0900025	39.050114, -84.506259	8/6/2022 9:05	0.002	0:10	Licking River	Not Applicable
0900027	39.050731, -84.506704	8/6/2022 9:05	0.002	0:10	Licking River	Not Applicable
0920007	39.063087, -84.500819	8/6/2022 9:25	0.048	0:20	Licking River	Not Applicable
0940027	39.068515, -84.503758	8/6/2022 9:15	0.007	0:15	None: Returned to CSS	Not Applicable
0940031	39.068387, -84.504614	8/6/2022 9:15	0.003	0:15	Licking River	Not Applicable
1010002	39.084794, -84.459673	8/5/2022 10:00	0.010	0:35	UT to Woodlawn Creek	Taylor Creek (2040)
		8/6/2022 9:30	0.004	0:33		
1010027	39.083566, -84.456180	8/5/2022 10:10	0.002	0:20	UT to Woodlawn Creek	Taylor Creek (2040)
1110067	39.006569, -84.589221	8/6/2022 12:45	0.007	0:34	Rice Creek	Lakeview (2040)
1190012	39.015680, -84.608249	8/6/2022 12:30	0.012	0:30	UT to Dry Creek	Dry Creek (2040)
1200022	39.022725, -84.603567	8/6/2022 12:30	0.010	0:25	UT to Dry Creek	Dry Creek (2040)
1220016	39.028552, -84.599485	8/5/2022 10:50	0.002	0:19	UT to Dry Creek	Dry Creek (2040)
		8/6/2022 12:30	0.009	0:44		

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
1220054	39.026306, -84.601512	8/6/2022 12:30	0.015	0:40	UT to Dry Creek	Dry Creek (2040)
1240008	39.013657, -84.615784	8/6/2022 12:35	0.005	0:38	UT to Dry Creek	Dry Creek (2040)
1310067	39.060240, -84.507998	7/6/2022 14:55	0.007	0:15	None: Returned to CSS	Not Applicable
		7/27/2022 8:30	0.003	0:10		
		8/1/2022 18:00	0.002	0:10		
		8/6/2022 9:05	0.034	0:35		
1380084	39.071664, -84.531237	8/6/2022 9:05	0.002	0:10	Ohio River	Not Applicable
1440044	39.083715, -84.513437	8/6/2022 9:05	0.003	0:15	Ohio River	Not Applicable
1510137	39.059434, -84.533449	8/6/2022 9:15	0.003	0:19	UT to to Banklick Creek	Not Applicable
1520124	39.053274, -84.543298	8/6/2022 9:20	0.061	1:03	Moser's Branch	Lakeview (2040)
1550053	39.047894, -84.558901	8/6/2022 7:50	0.032	0:45	UT to to Pleasant Run Creek	Bromley Crescent Springs Improvements (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
1560016	39.044140, -84.559151	8/6/2022 8:05	0.020	0:30	UT to Pleasant Run Creek	Bromley Crescent Springs Improvements (2040)
1560092	39.046501, -84.559279	8/6/2022 7:50	0.055	0:60	UT to Pleasant Run Creek	Bromley Crescent Springs Conveyance
1560121	39.045134, -84.559066	8/6/2022 8:05	0.006	0:25	UT to Pleasant Run Creek	Bromley Crescent Springs Improvements (2040)
1570025	39.035110, -84.552492	8/6/2022 8:15	0.004	0:19	UT to Horse Branch	Not Applicable
1570100	39.040149, -84.549623	8/6/2022 8:00	0.021	1:24	UT to Moser's Branch	Lakeview (2040)
1580034	39.039627, -84.559286	8/6/2022 8:05	0.007	0:25	UT to Pleasant Run Creek	Not Applicable
1580035	39.039372, -84.559053	8/6/2022 8:05	0.003	0:19	UT to Pleasant Run Creek	Not Applicable
1610054	39.042768, -84.579253	8/6/2022 8:25	0.007	0:30	Dry Creek	Dry Creek (2040)
1610055	39.042882, -84.579124	8/6/2022 8:30	0.003	0:15	Dry Creek	Dry Creek (2040)
1620001	39.050958, -84.568129	8/6/2022 8:15	0.003	0:15	UT to Pleasant Run Creek	Not Applicable

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
1620140	39.050940, -84.568114	8/6/2022 8:15	0.001	0:14	UT to Pleasant Run Creek	Not Applicable
1690043	39.068509, -84.540460	8/6/2022 9:00	0.009	0:44	UT to Pleasant Run Creek	Bromley Crescent Springs Conveyance
1720117	39.084706, -84.554648	9/6/2022 2:10	0.002	0:10	UT Pleasant Run Creek	Not Applicable
1730086	39.075237, -84.557641	8/6/2022 9:20	0.028	0:45	Pleasant Run Creek	Bromley Crescent Springs Improvements (2029)
1840081	39.045822, -84.512563	8/5/2022 9:25	0.021	0:25	UT to Banklick Creek	Not Applicable
		8/6/2022 9:00	0.044	0:15		
1840089	39.047542, -84.511226	8/6/2022 9:05	0.013	0:10	UT to Banklick Creek	Not Applicable
1840110	39.048247, -84.508606	8/5/2022 9:25	0.017	0:25	UT to Banklick Creek	Not Applicable
		8/6/2022 8:55	0.038	0:20		
1850011	39.040784, -84.500286	8/5/2022 9:35	0.024	0:30	Banklick Creek	Not Applicable

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		8/6/2022 9:00	0.028	0:30		
1850013	39.039262, -84.500693	8/5/2022 9:40	0.004	0:15	Banklick Creek	Not Applicable
		8/6/2022 8:55	0.043	0:25		
		8/6/2022 9:05	0.006	0:10		
1850140	39.035532, -84.501651	8/5/2022 9:25	0.035	0:40	Banklick Creek	Banklick EQ/Conveyance
		8/6/2022 8:45	0.039	0:48		
1850141	39.034191, -84.501171	8/5/2022 9:15	0.105	3:18	Banklick Creek	Banklick EQ/Conveyance
		8/6/2022 8:45	0.090	1:53		
1860108	39.036049, -84.508653	8/5/2022 9:25	0.056	1:05	Banklick Creek	Banklick EQ/Conveyance
		8/6/2022 8:50	0.058	1:19		
1870018	39.033927, -84.499529	8/5/2022 9:20	0.008	0:39	Banklick Creek	Banklick EQ/Conveyance
		8/6/2022 8:50	0.008	0:34		
1880009	39.040486, -84.492106	8/5/2022 9:30	0.007	0:24	Licking River	CSS Conveyance Improvements
		8/6/2022 9:00	0.011	0:20		
1880022	39.037927, -84.491598	8/5/2022 9:40	0.005	0:15	Licking River	Not Applicable

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
		8/6/2022 9:00	0.039	0:20		
1880023	39.03792, -84.491957	8/6/2022 9:05	0.007	0:10	Licking River	Not Applicable
1880028	39.038978, -84.492269	8/6/2022 9:00	0.014	0:20	Licking River	CSS Conveyance Improvements
1880067	39.041047, -84.495918	8/5/2022 9:40	0.001	0:10	Licking River	Not Applicable
		8/6/2022 9:00	0.012	0:15		
1880073	39.041283, -84.496000	8/5/2022 9:40	0.008	0:10	Licking River	Not Applicable
		8/6/2022 9:00	0.028	0:15		
1910049	39.041274, -84.622863	8/6/2022 8:45	0.010	0:54	UT Dry Creek	Not Applicable
1910050	39.041393, -84.624272	8/6/2022 8:45	0.011	1:04	UT Dry Creek	Not Applicable
1910052	39.041735, -84.626407	8/6/2022 8:45	0.014	0:54	UT Dry Creek	Not Applicable
1910241	39.040208, -84.619316	8/6/2022 8:45	0.022	0:60	UT to Dry Creek	Not Applicable
1920097	39.028000, -84.433000	8/6/2022 9:35	0.032	4:00	Duck Creek	Wolpert PS
1920127	39.025000, -84.435000	8/6/2022 9:45	0.003	0:54	Dry Creek	Wolpert PS
1940006	39.032334, -84.534620	8/6/2022 8:21	0.029	1:03	Moser's Branch	Lakeview (2040)
1940021	39.038332, -84.537071	8/6/2022 8:15	0.002	0:27	Moser's Branch	Lakeview (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
1940023	39.039327, -84.537827	8/6/2022 8:15	0.003	0:57	Moser's Branch	Lakeview (2040)
1940024	39.039696, -84.538356	8/6/2022 8:10	0.013	1:04	Moser's Branch	Lakeview (2040)
1940025	39.040218, -84.538458	8/6/2022 8:10	0.005	0:34	Moser's Branch	Lakeview (2040)
1940027	39.041449, -84.540022	8/6/2022 8:05	0.091	2:45	Moser's Branch	Lakeview (2034)
1960002	39.031643, -84.536594	8/6/2022 8:30	0.013	0:40	Horse Branch	Lakeview (2040)
2010005	39.010558, -84.506927	8/6/2022 8:36	0.002	0:41	UT to Holds Branch	Not Applicable
2010042	39.010615, -84.499344	8/6/2022 8:05	0.008	0:34	UT to Holds Branch	Lakeview (2040)
2020035	38.992666, -84.519138	8/6/2022 8:25	0.079	3:48	Wayman or Hands Branch	Lakeview (2040)
2020203	38.992253, -84.518312	8/6/2022 8:25	0.024	1:59	Waymans Branch	Lakeview (2040)
2020218	38.983587, -84.510905	8/6/2022 8:35	0.009	0:59	Wayman or Hands Branch	Not Applicable
2020219	38.982849, -84.509611	8/6/2022 8:35	0.006	0:46	Wayman or Hands Branch	Not Applicable
2020221	38.981399, -84.508774	8/6/2022 8:40	0.002	0:24	UT Wayman or Hands Branch	Not Applicable
2020255	38.984753, -84.512959	8/6/2022 8:45	0.001	0:27	Waymans Branch	Not Applicable
2020860	38.991807, -84.518144	8/6/2022 8:25	0.058	1:59	Waymans Branch	Lakeview (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
2100057	39.001294, -84.611764	8/6/2022 12:35	0.002	0:24	UT to Bullock Pen Creek	Lakeview (2040)
2100111	38.997747, -84.611918	8/6/2022 12:40	0.002	0:15	UT to Bullock Pen Creek	Lakeview (2040)
2100126	39.001555, -84.612300	8/6/2022 12:35	0.008	0:25	UT to Bullock Pen Creek	Lakeview (2040)
2110006	39.004057, -84.606363	8/5/2022 11:10	0.003	0:24	UT to Bullock Pen Creek	Lakeview (2040)
		8/6/2022 12:40	0.023	0:50		
2120001	39.003058, -84.604417	8/6/2022 12:40	0.001	0:19	UT to Bullock Pen Creek	Lakeview (2040)
2120023	39.005642, -84.603616	8/6/2022 12:30	0.004	0:20	UT to Bullock Pen Creek	Lakeview (2040)
2120041	39.007017, -84.603772	8/5/2022 10:45	0.003	0:25	UT to Bullock Pen Creek	Lakeview (2040)
		8/6/2022 12:30	0.010	0:25		
2160004	39.028318, -84.545576	8/6/2022 8:10	0.012	0:48	UT to Horse Branch	Lakeview (2040)
2160005	39.028636, -84.546051	8/6/2022 8:10	0.006	0:38	UT to Horse Branch	Not Applicable
2160006	39.028937, -84.546321	8/6/2022 8:15	0.010	0:29	UT to Horse Branch	Not Applicable
2170008	39.027240, -84.554943	8/6/2022 8:15	0.006	0:24	UT to Horse Branch	Not Applicable
2170013	39.029931, -84.559349	8/6/2022 8:10	0.007	0:20	UT to Horse Branch	Not Applicable
2170097	39.025928, -84.550366	8/6/2022 8:00	0.024	0:50	UT to Horse Branch	Lakeview (2040)

SSO	Location (x, y)	Date & Time	Estimated Volume (MG)	Duration (hrs:min)	Receiving Water	Related Project
2170170	39.026060, -84.552506	8/6/2022 8:15	0.001	0:14	UT Horse Branch	Lakeview (2034)
2370003	39.074793, -84.738540	8/6/2022 10:15	0.061	4:39	Woolper Creek	Bullitsville EQ
2470034	39.061815, -84.660858	8/5/2022 10:20	0.005	0:29	Elijahs Creek	Not Applicable
		8/6/2022 8:35	0.096	8:00		
C1880087	39.037625, -84.489770	8/5/2022 9:30	0.014	0:25	Licking River	Not Applicable
		8/6/2022 9:00	0.022	0:25		